



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.5510003/RWE/FRCAPPLICATION NO.
10/612,410FIRST NAMED INVENTOR
Robert P. BennettFILING DATE
July 3, 2003ART UNIT
1653

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
KKH	AA1	4,889,818	12/26/1989	Gelfand <i>et al.</i>			06/17/1987
	AB1	4,965,188	10/23/1990	Mullis <i>et al.</i>			06/17/1987
	AC1	5,047,342	09/10/1991	Chatterjee			08/10/1989
	AD1	5,079,352	01/07/1992	Gelfand <i>et al.</i>			05/15/1990
	AE1	5,244,797	09/14/1993	Kotewicz <i>et al.</i>			03/18/1991
	AF1	5,252,466	10/12/1993	Cronan, Jr.			05/18/1990
	AG1	5,270,179	12/14/1993	Chatterjee			01/28/1992
	AH1	5,374,553	12/20/1994	Gelfand <i>et al.</i>			08/13/1990
	AI1	5,436,149	07/25/1995	Barnes			02/19/1993
	AJ1	5,512,462	04/30/1996	Cheng			02/25/1994
	AK1	5,614,365	03/25/1997	Tabor <i>et al.</i>			11/10/1994

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	WO 92/06188 A2	04/16/1992	WIPO			Yes No
	AM1	WO 92/06200 A1	04/16/1992	WIPO			Yes No
	AN1	WO 96/10640 A1	04/11/1996	WIPO			Yes No
	AO1	WO 96/19497 A1	06/27/1996	WIPO			Yes No
	AP1	WO 97/09451 A1	03/13/1997	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Airenne, K.J., <i>et al.</i> , "Avidin Is a Promising Tag for Fusion Proteins Produced in Baculovirus-Infected Insect Cells," <i>Protein Expr. Purif.</i> 17:139-145, Academic Press (1999)
	AS	1	Andersen, A.H., <i>et al.</i> , "Studies of Topoisomerase II-mediated Cleavage and Religation Reactions by Use of a Suicidal Double-stranded DNA Substrate," <i>J. Biol. Chem.</i> 266:9203-9210, The American Society for Biochemistry and Molecular Biology, Inc. (1991)
↓	AT	1	Andersson, S., <i>et al.</i> , "Cloning, Structure, and Expression of the Mitochondrial Cytochrome P-450 Sterol 26-Hydroxylase, a Bile Acid Biosynthetic Enzyme," <i>J. Biol. Chem.</i> 264:8222-8229, The American Society for Biochemistry and Molecular Biology, Inc. (1989)

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KKH	AA2	5,766,891	06/16/1998	Shuman			12/19/1994
	AB2	5,789,156	08/04/1998	Bujard <i>et al.</i>			02/03/1995
	AC2	5,811,252	09/22/1998	Verheijen			07/06/1995
	AD2	5,851,808	12/22/1998	Elledge <i>et al.</i>			02/28/1997
	AE2	5,888,732	03/30/1999	Hartley <i>et al.</i>			06/07/1996
	AF2	6,143,557	11/07/2000	Hartley <i>et al.</i>			01/20/1999
	AG2	6,171,861 B1	01/09/2001	Hartley <i>et al.</i>			01/12/1998
	AH2	6,270,969 B1	08/07/2001	Hartley <i>et al.</i>			01/20/1999
	AI2	6,277,608 B1	08/21/2001	Hartley <i>et al.</i>			04/22/1999
	AJ2	6,277,620 B1	08/21/2001	Gwynn <i>et al.</i>			04/26/1999
	AK2	2002/0007051 A1	01/17/2002	Cheo <i>et al.</i>			12/11/2000

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	AL2	WO 98/47912 A1	10/29/1998	WIPO			Yes No
	AM2	WO 98/56943 A1	12/17/1998	WIPO			Yes No
	AN2	WO 00/52027 A1	09/08/2000	WIPO			Yes No
	AO2	WO 04/005482 A2	01/15/2004	WIPO			Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KKH	AR	2	Astatke, M., <i>et al.</i> , "How E. coli DNA Polymerase I (Klenow fragment) Distinguishes between Deoxy- and Dideoxynucleotides," <i>J. Mol. Biol.</i> 278:147-165, Academic Press, Ltd. (1998)
	AS	2	Barnes, W.M., "The fidelity of <i>Taq</i> polymerase catalyzing PCR is improved by an N-terminal deletion," <i>Gene</i> 112:29-35, Elsevier Science Publishers B.V. (1992)
	AT	2	Berger, J.M., <i>et al.</i> , "Structure of DNA topoisomerases," <i>Biochim. Biophys. Acta</i> 1400:3-18, Elsevier Science B.V. (1998)

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KKH	AA3	6,410,317 B1	06/25/2002	Farmer			07/14/2000
KKH	AB3	2003/0186233 A1	10/02/2003	Chesnut <i>et al.</i>			12/07/2001
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KKH	AR	3	Boshart, M., <i>et al.</i> , "A Very Strong Enhancer Is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," <i>Cell</i> 41:521-530, The MIT Press (1985)				
↓	AS	3	Brutlag, D.L., <i>et al.</i> , "Improved sensitivity of biological sequence database searches," <i>Comput. Appl. Biosci.</i> 6:237-245, Oxford University Press (1990)				
↓	AT	3	Caron, P.R., and Wang, J.C., "Appendix II: Alignment of Primary Sequences of DNA Topoisomerases," <i>Adv. Pharmacol.</i> 29B:271-297, Academic Press, Inc. (1994)				

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	AO						Yes
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	AP						Yes
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KKH	AR	4	Chapman-Smith, A., and Cronan, Jr., J.E., "Molecular Biology of Biotin Attachment to Proteins," <i>J. Nutr.</i> 129:477S-484S, American Society for Nutritional Sciences (1999)
↓	AS	4	Cheng, C., <i>et al.</i> , "Conservation of Structure and Mechanism between Eukaryotic Topoisomerase I and Site-Specific Recombinases," <i>Cell</i> 92:841-850, Cell Press (1998)
↓	AT	4	Cheng, C., and Shuman, S., "Recombinogenic Flap Ligation Pathway for Intrinsic Repair of Topoisomerase 1B-Induced Double-Strand Breaks," <i>Mol. Cell. Biol.</i> 20:8059-8068, American Society for Microbiology (2000)

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KKH	AR	5	Cronan, Jr., J.E., "Biotination of Proteins <i>in Vivo</i> ," <i>J. Biol. Chem.</i> 265:10327-10333, The American Society for Biochemistry and Molecular Biology, Inc. (1990)				
↓	AS	5	Digate, R.J., and Marians, K.J., "Molecular Cloning and DNA Sequence Analysis of <i>Escherichia coli topB</i> , the Gene Encoding Topoisomerase III," <i>J. Biol. Chem.</i> 264:17924-17930, The American Society for Biochemistry and Molecular Biology, Inc. (1989)				
↓	AT	5	Dubendorff, J.W., and Studier, F.W., "Controlling Basal Expression in an Inducible T7 Expression System by Blocking the Target T7 Promoter with <i>lac</i> Repressor," <i>J. Mol. Biol.</i> 219:45-59, Academic Press, Ltd. (1991)				

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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
KKH	AR	6	Einhauer, A., and Jungbauer, A., "The FLAG™ peptide, a versatile fusion tag for the purification of recombinant proteins," <i>J. Biochem. Biophys. Methods</i> 49:455-465, Elsevier Science B.V. (October 2001)
↓	AS	6	Flaman, J-M., <i>et al.</i> , "A rapid PCR fidelity assay," <i>Nucl. Acids Res.</i> 22:3259-3260, Oxford University Press (1994)
↓	AT	6	Gatz, C., <i>et al.</i> , "Stringent repression and homogenous de-repression by tetracycline of a modified CaMV 35S promoter in intact transgenic tobacco plants," <i>Plant J.</i> 2:397-404, Blackwell Scientific Publishers (1992)

EXAMINER <div style="text-align: center;">Kevin K. Hill</div>	DATE CONSIDERED <div style="text-align: center;">Aug. 9, 2006</div>
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	AO						Yes No
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KKH	AR	<u>1</u>	Gerard, G.F., <i>et al.</i> , "cDNA Synthesis by Moloney Murine Leukemia Virus RNase H-Minus Reverse Transcriptase Possessing Full DNA Polymerase Activity," <i>Focus</i> 14:91-93, Life Technologies, Inc. (1992)
↓	AS	<u>1</u>	Green, N.M., "Avidin and Streptavidin," <i>Methods Enzymol.</i> 184:51-67, Academic Press, Inc. (1990)
↓	AT	<u>1</u>	Grunden, A.M., <i>et al.</i> , "An Analysis of the Binding of Repressor Protein ModE to <i>modABCD</i> (Molybdate Transport) Operator/Promoter DNA of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 274:24308-24315, The American Society for Biochemistry and Molecular Biology, Inc. (1999)

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KKH	AR	8	Gupta, M., <i>et al.</i> , "Eukaryotic DNA topoisomerases I," <i>Biochim. Biophys. Acta</i> 1262:1-14, Elsevier Science B.V. (1995)
↓	AS	8	Hanai, R., <i>et al.</i> , "Human TOP3: A single-copy gene encoding DNA topoisomerase III," <i>Proc. Natl. Acad. Sci. USA</i> 93:3653-3657, National Academy Press (1996)
↓	AT	8	Hartley, J.L., <i>et al.</i> , "DNA Cloning Using In Vitro Site-Specific Recombination," <i>Genome Res.</i> 10:1788-1795, Cold Spring Harbor Laboratory Press (2000)

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KKH	AR	9	Jank, M.M., et al., "Expression and Biotinylation of a Mutant of the Transcarboxylase Carrier Protein from <i>Propionis shermanii</i> ," <i>Protein Expr. Purif.</i> 17:123-127, Academic Press (1999)
↓	AS	9	Kim, R.A., and Wang, J.C., "Identification of the Yeast <i>TOP3</i> Gene Product as a Single Strand-specific DNA Topoisomerase," <i>J. Biol. Chem.</i> 267:17178-17185, The American Society for Biochemistry and Molecular Biology, Inc. (1992)
↓	AT	9	Kotewicz, M.L., et al., "Isolation of cloned Moloney murine leukemia virus reverse transcriptase lacking ribonuclease H activity," <i>Nucl. Acids Res.</i> 16:265-277, IRL Press, Ltd. (1988)

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KKH	AR	10	Landy, A., "Mechanistic and structural complexity in the site-specific recombination pathways of Int and FLP," <i>Curr. Opin. Genet. Dev.</i> 3:699-707, Current Biology, Ltd. (1993)
↓	AS	10	Lawyer, F.C., et al., "High-level Expression, Purification, and Enzymatic Characterization of Full-length <i>Thermus aquaticus</i> DNA Polymerase and a Truncated Form Deficient in 5' to 3' Exonuclease Activity," <i>PCR Meth. Appl.</i> 2:275-287, Cold Spring Harbor Laboratory Press (1993)
↓	AT	10	Li, Z., et al., "The <i>traE</i> Gene of Plasmid RP4 Encodes a Homologue of <i>Escherichia coli</i> DNA Topoisomerase III," <i>J. Biol. Chem.</i> 272:19582-19587, The American Society for Biochemistry and Molecular Biology, Inc. (1997)

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KKH	AR	11	Manstein, D.J., et al., "Cloning vectors for the production of proteins in <i>Dictyostelium discoideum</i> ," <i>Gene</i> 162:129-134, Elsevier Science B.V. (1995)
↓	AS	11	Mills, A.A., "Changing colors in mice: an inducible system that delivers," <i>Genes Dev.</i> 15:1461-1467, Cold Spring Harbor Laboratory Press (June 2001)
↓	AT	11	Murray, P.J., et al., "Epitope Tagging of the Human Endoplasmic Reticulum HSP70 Protein, BiP, to Facilitate Analysis of BiP - Substrate Interactions," <i>Anal. Biochem.</i> 229:170-179, Academic Press, Inc. (1995)

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	AO						Yes
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	AP						Yes
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KKH	AR	12	Murtif, V.L., et al., "Cloning and expression of the 1.3S biotin-containing subunit of transcarboxylase," <i>Proc. Natl. Acad. Sci. USA</i> 82:5617-5621, National Academy Press (1985)
↓	AS	12	Nelson, J.A., et al., "Negative and Positive Regulation by a Short Segment in the 5'-Flanking Region of the Human Cytomegalovirus Major Immediate-Early Gene," <i>Mol. Cell Biol.</i> 7:4125-4129, American Society for Microbiology (1987)
↓	AT	12	Parrott, M.B., and Barry, M.A., "Metabolic Biotinylation of Recombinant Proteins in Mammalian Cells and in Mice," <i>Mol. Ther.</i> 1:96-104, The American Society of Gene Therapy (2000)

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KKH	AR	13	Parrott, M.B., and Barry, M.A., "Metabolic Biotinylation of Secreted and Cell Surface Proteins from Mammalian Cells," <i>Biochem. Biophys. Res. Comm.</i> 281:993-1000, Academic Press (March 2001)
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EXAMINER

Kevin K. Hill

DATE CONSIDERED

Aug. 9, 2006

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.5510003/RWE/FRCAPPLICATION NO.
10/612,410FIRST NAMED INVENTOR
Robert P. BennettFILING DATE
July 3, 2003ART UNIT
1653

U.S. PATENT DOCUMENTS

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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KKH	AR	<u>14</u>	Rosano, C., <i>et al.</i> , "The X-ray three-dimensional structure of avidin," <i>Biomol. Eng.</i> 16:5-12, Elsevier Science B.V. (1999)
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↓	AT	<u>14</u>	Saiki, R.K., <i>et al.</i> , "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487-491, American Association for the Advancement of Science (1988)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KKH	AR	15	Sambrook, J., et al., "Introduction of Recombinant Vectors into Mammalian Cells," in <i>Molecular Cloning, a Laboratory Manual</i> , 2nd. ed., Sambrook, J., et al., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pp. 16.30-16.55 (1989)
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↓	AT	15	Shuman, S., and Moss, B., "Identification of a vaccinia virus gene encoding a type I DNA topoisomerase," <i>Proc. Natl. Acad. Sci. USA</i> 84:7478-7482, National Academy Press (1987)

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0942.5510003/RWE/FRC
FIRST NAMED INVENTOR
Robert P. Bennett
FILING DATE
July 3, 2003

APPLICATION NO.
10/612,410

ART UNIT
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	AP						Yes No

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KKH	AR	<u>16</u>	Shuman, S., "Recombination mediated by vaccinia virus DNA topoisomerase I in <i>Escherichia coli</i> is sequence specific," <i>Proc. Natl. Acad. Sci. USA</i> 88:10104-10108, National Academy Press (1991)
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KKH	AR	17	Schwarz, E., <i>et al.</i> , "The Sodium Ion Translocating Oxalacetate Decarboxylase of <i>Klebsiella pneumoniae</i> ," <i>J. Biol. Chem.</i> 263:9640-9645, The American Society for Biochemistry and Molecular Biology, Inc. (1988)
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↓	AT	<u>18</u>	Wang, J.C., <i>et al.</i> , "DNA Topoisomerases: Why So Many?" <i>J. Biol. Chem.</i> 266:6659-6662, The American Society for Biochemistry and Molecular Biology, Inc. (1991)

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KKH	AR	19	Watson, J.D., et al., "Transferring Genes into Mammalian Cells," in <i>Recombinant DNA</i> , 2nd ed., Watson, J.D., et al., eds., W.H. Freeman and Company, New York, NY, pp. 213-234 (1992)
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KKH	AR	<u>20</u>	Zhang, H.L., et al., "Escherichia coli DNA Topoisomerase III Is a Site-specific DNA Binding Protein That Binds Asymmetrically to Its Cleavage Site," <i>J. Biol. Chem.</i> 270:23700-23705, The American Society for Biochemistry and Molecular Biology, Inc. (1995)
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↓	AT	<u>20</u>	Zusman, R., and Zusman, I., "Glass fibers covered with sol-glass as a new support for affinity chromatography columns: a review," <i>J. Biochem. Biophys. Methods</i> 49:175-187, Elsevier Science B.V. (October 2001)

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	AO						Yes
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

KKH	AR	<u>21</u>	Copy of co-pending U.S. Application No. 09/438,358, inventors Gerard <i>et al.</i> , filed on November 12, 1999
↓	AS	<u>21</u>	Copy of co-pending U.S. Application No. 09/517,466, inventors Hartley <i>et al.</i> , filed on March 2, 2000
↓	AT	<u>21</u>	Copy of co-pending U.S. Application No. 09/695,065, inventors Brasch <i>et al.</i> filed on October 25, 2000

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Kevin K. Hill

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

**FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/612,410
Filing Date	July 3, 2003
First Named Inventor	Robert P. Bennett
Art Unit	1633
Examiner Name	Burkhart, Michael D.
Attorney Docket Number	0942.5510003/RWE/FRC

Sheet	1	of	1
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NON PATENT LITERATURE DOCUMENTS

[illegible]

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Examiner Signature	Kevin K. Hill	Date Considered	August 9, 2006
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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